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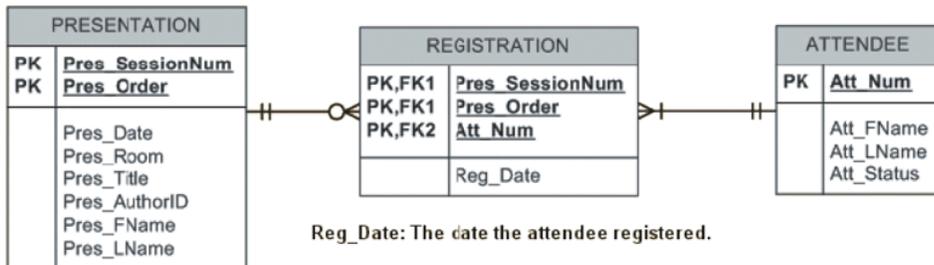
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Note all dependency diagram entity PKs should be **bolded and underlined**. Dependency diagram using Paint, Word, or OneNote are preferable for legibility reasons. Drawing by hand is allowed, however, legibility concerns may lead to points deductions.

Part 1. Using the descriptions of the attributes given in the figure, convert the ERD shown in into a dependency diagram containing entities in at least 3NF.

Remember, you should work one entity at a time. For full credit, you need to **include and clearly label all the dependency types in the initial dependency diagram (fully functional, partial, and transitive), all intermediate normalization steps/stages, and all the normal forms(1NF, 2NF, 3NF)** for every entity in every stage.

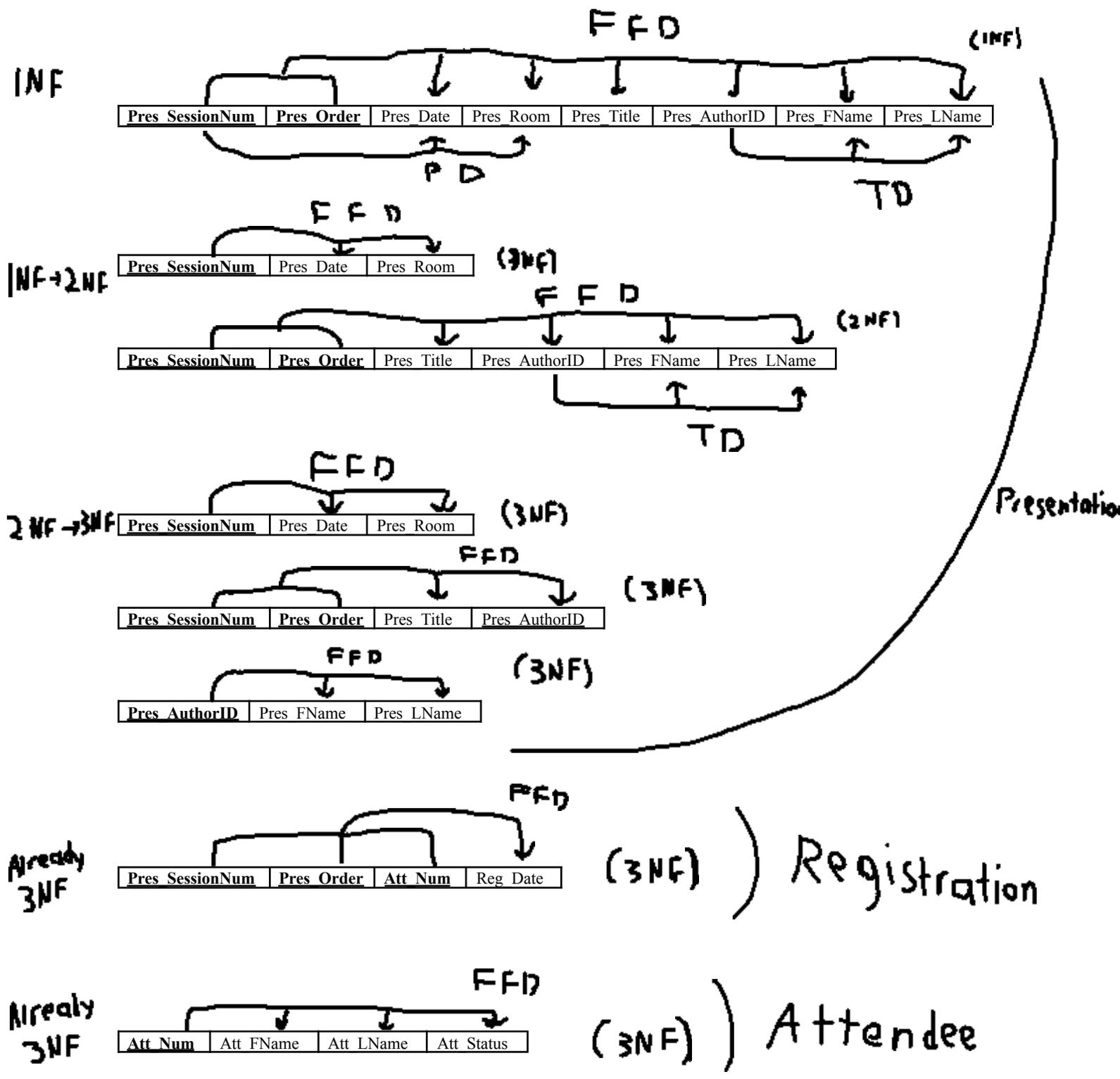


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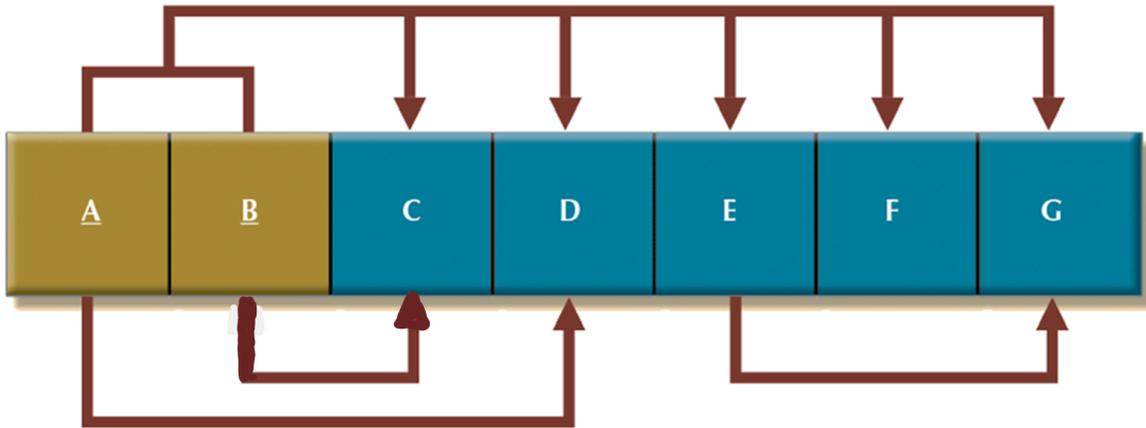
Att_Num: System-generated number.
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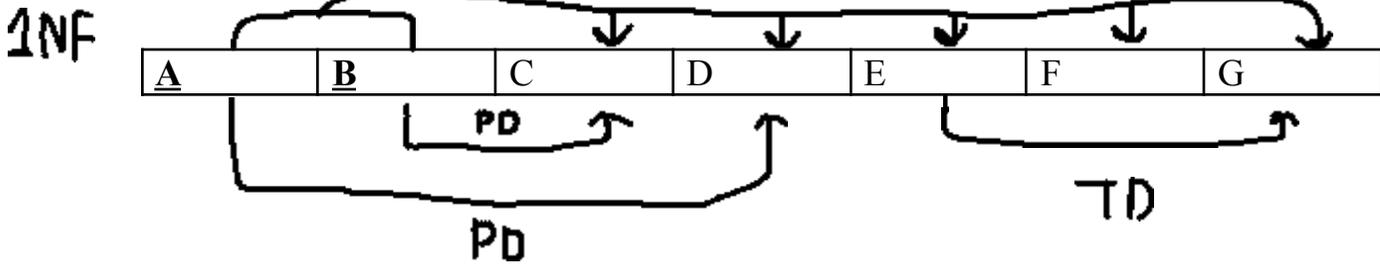
To help you start on the right track. The correct **initial** dependency diagram with all the dependencies arrows (not labelled) is attached. This is best used **after** you come up with your own initial dependency diagram based on the question prompt. That way you can check your work and correct your design before starting the normalization process.



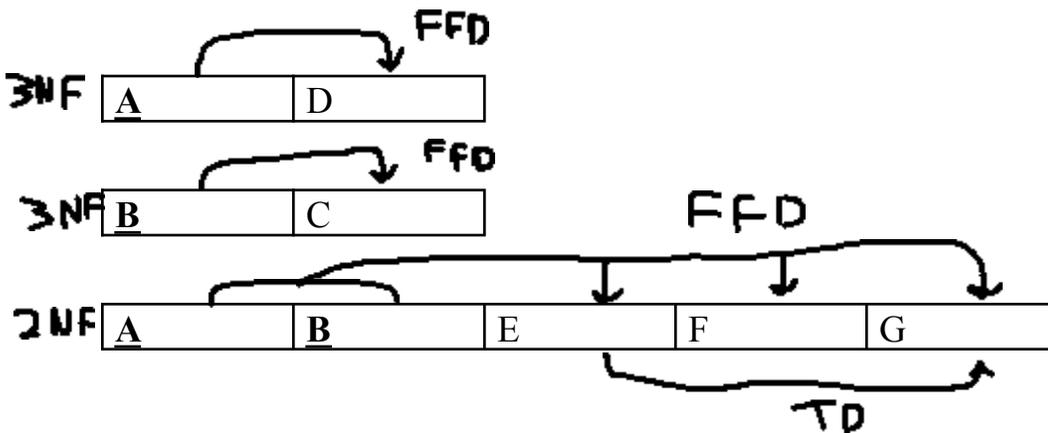
Part 2. Use the dependency diagram below to work the following problems.



a. Label all dependency types: fully functional, partial, and transitive dependencies.



b. Break up the dependency diagram shown in above figure to at least 2NF.



c. Modify the dependency diagrams you created in part b to produce a set of entities that are in 3NF.

